

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An isolated library of structurally-constrained cyclic peptides, wherein each said cyclic peptide comprises an amino acid sequence C1-A1-A2- (A3)_n-A4-A5-C2 (SEQ ID NO: 1), wherein

C1 and C2 are cysteines;

A1, A2, A3, A4, and A5 are naturally occurring L-amino acids;

A1 and A5 are independently amino acids W, Y, F, H, I, V, or T;

A2 and A4 are independently amino acids W, Y, F, L, M, I, or V;

A3 is any naturally occurring L-amino acid and n is an integer that is 3, 4, 5, 6, 7, 8, 9, 10, 11, or 12; and

C1 and C2 together form a disulfide bond thereby forming a cyclic peptide; the carboxy terminus of C1 is optionally protected with a carboxy protecting group; and the amino terminus of C2 is optionally protected with an amino protecting group.

2. (original) The library of claim 1, wherein A1 or A5 is a β -branched residue having two non-hydrogen substituents on the β -carbon of the amino acid residue.

3. (original) The library of claim 1, wherein A1 or A5 is T.

4. (previously canceled)

5. (original) The library of claim 1, wherein A2 or A4 is amino acid W, F or Y.

6. (original) The library of claim 5, wherein A2 or A4 is W.

7. (original) The library of claim 6, wherein A2 and A4 are W.
8. (original) The library of claim 1, wherein n is at least 4.
9. (original) The library of claim 8, wherein n is no greater than 10.
10. (original) The library of claim 9, wherein n is 4.
11. (original) The library of claim 10, wherein (A3)₄ is EGNK, ENGK, QGSF or VWQL.
12. (original) The library of claim 11, wherein A1 is T and A5 is T.
13. (original) The library of claim 12, wherein A2 is W or L.
14. (original) The library of claim 13, wherein A4 is W or L.
15. (previously canceled)
16. (previously canceled)
17. (previously canceled)
18. (previously canceled)
19. (canceled)
20. (currently amended) An isolated plurality of cyclic peptides having a reverse turn secondary structure, wherein each cyclic peptide comprises the amino acid sequence C1-A1-A2-(A3)_n-A4-A5-C2 [SEQ ID NO:1], wherein

C1 and C2 are cysteines;

(A3)_n is a library of natural ~~or synthetic~~ amino acids where n is 3 to 12, inclusive;

A1 and A5 are independently amino acids W, Y, F, H, I, V, or T;

A2 and A4 are independently amino acids W or L; and

C1 and C2 together form a disulfide bond thereby forming a cyclic peptide.

21. (previously added) The isolated plurality of cyclic peptides of claim 21, wherein the reverse turn secondary structure is a β -turn, β -hairpin, β -bulge, or γ -turn.

22. (previously added) The isolated library of claim 19, wherein the amino terminus of Cysteine C1 is protected with an acetate and the carboxy terminus of Cysteine C2 is protected with an amine.